

SCORE Search Results Details for Application 09961086 and Search Result 20090302_142117_us-09-961-086a-1.rapbn.

Score Home	Retrieve Application	SCORE System	SCORE	Comments /
Page	List	Overview	FAQ	Suggestions

This page gives you Search Results detail for the Application 09961086 and Search Result 20090302_142117_us-09-961-086a-1.rapbn.

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GenCore version 6.3
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OM protein - protein search, using sw model

Run on: March 3, 2009, 04:35:41 ; Search time 2 Seconds
(without alignments)
993.088 Million cell updates/sec

Title: US-09-961-086A-1
Perfect score: 3352
Sequence: 1 MSSSNVEVFIPVSGQNTNGF.....MIVIFLTIAYLKLFLKKYS 655

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 16399 seqs, 3032329 residues

Total number of hits satisfying chosen parameters: 16399

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA_New:*
1: /ABSS/Data/CRF/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
2: /ABSS/Data/CRF/ptodata/2/pubpaa/US11_NEW_PUB.pep:*
3: /ABSS/Data/CRF/ptodata/2/pubpaa/US12_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query		DB	ID	Description
		Match	Length			
1	602	18.0	1511	2	US-11-982-010-1020	Sequence 1020, Ap
2	602	18.0	1511	2	US-11-982-274-1020	Sequence 1020, Ap

3	163	4.9	808	2	US-11-769-326-53	Sequence 53, Appl
4	86	2.6	509	2	US-11-982-010-1472	Sequence 1472, Ap
5	86	2.6	509	2	US-11-982-274-1472	Sequence 1472, Ap
6	85	2.5	573	3	US-12-089-646-8	Sequence 8, Appli
7	83.5	2.5	500	3	US-12-171-923-18	Sequence 18, Appl
8	82.5	2.5	852	3	US-12-177-925-4	Sequence 4, Appli
9	82.5	2.5	2513	2	US-11-982-010-1262	Sequence 1262, Ap
10	82.5	2.5	2513	2	US-11-982-274-1262	Sequence 1262, Ap
11	82	2.4	479	3	US-12-135-071A-18	Sequence 18, Appl
12	82	2.4	513	2	US-11-982-010-1221	Sequence 1221, Ap
13	82	2.4	513	2	US-11-982-274-1221	Sequence 1221, Ap
14	81.5	2.4	322	3	US-12-169-527-2468	Sequence 2468, Ap
15	81.5	2.4	325	2	US-11-982-010-1636	Sequence 1636, Ap
16	81.5	2.4	325	2	US-11-982-274-1636	Sequence 1636, Ap
17	81.5	2.4	878	3	US-12-169-527-70	Sequence 70, Appl
18	81.5	2.4	1193	3	US-12-210-770-27	Sequence 27, Appl
19	80.5	2.4	1193	3	US-12-210-770-25	Sequence 25, Appl
20	80	2.4	359	2	US-11-982-010-1205	Sequence 1205, Ap
21	80	2.4	359	2	US-11-982-274-1205	Sequence 1205, Ap
22	80	2.4	810	2	US-11-982-010-1413	Sequence 1413, Ap
23	80	2.4	810	2	US-11-982-274-1413	Sequence 1413, Ap
24	79.5	2.4	488	3	US-12-135-071A-21	Sequence 21, Appl
25	79.5	2.4	535	2	US-11-982-010-1949	Sequence 1949, Ap
26	79.5	2.4	535	2	US-11-982-274-1949	Sequence 1949, Ap
27	79.5	2.4	1885	3	US-12-181-855A-22	Sequence 22, Appl
28	78.5	2.3	480	3	US-12-135-071A-15	Sequence 15, Appl
29	78.5	2.3	1382	3	US-12-163-889-2	Sequence 2, Appli
30	77.5	2.3	324	2	US-11-982-010-1909	Sequence 1909, Ap
31	77.5	2.3	324	2	US-11-982-274-1909	Sequence 1909, Ap
32	77.5	2.3	1579	3	US-12-135-911-2	Sequence 2, Appli
33	77	2.3	563	2	US-11-982-010-1510	Sequence 1510, Ap
34	77	2.3	563	2	US-11-982-274-1510	Sequence 1510, Ap
35	76.5	2.3	427	3	US-12-218-975-1579	Sequence 1579, Ap
36	76.5	2.3	990	3	US-12-169-527-72	Sequence 72, Appl
37	76	2.3	351	2	US-11-982-010-1745	Sequence 1745, Ap
38	76	2.3	351	2	US-11-982-274-1745	Sequence 1745, Ap
39	76	2.3	572	3	US-12-218-975-1639	Sequence 1639, Ap
40	76	2.3	1057	3	US-12-169-527-90	Sequence 90, Appl
41	75.5	2.3	579	3	US-12-218-975-544	Sequence 544, App
42	75.5	2.3	579	3	US-12-218-975-1432	Sequence 1432, Ap
43	75.5	2.3	766	2	US-11-982-010-1951	Sequence 1951, Ap
44	75.5	2.3	766	2	US-11-982-274-1951	Sequence 1951, Ap
45	75.5	2.3	1609	2	US-11-928-477-75	Sequence 75, Appl

ALIGNMENTS

RESULT 1

US-11-982-010-1020

; Sequence 1020, Application US/11982010

; Publication No. US20090044297A1

; GENERAL INFORMATION

; APPLICANT: Adams, Thomas R

; APPLICANT: Andersen, Scott E.

; APPLICANT: Cao, Yongwei

; APPLICANT: Conner, Timothy W.

; APPLICANT:Dotson, Stanton B.
; APPLICANT:Edgerton, Michael D
; APPLICANT:Heck, Gregory R.
; APPLICANT:Kovalic, David K.
; APPLICANT:La Rosa, Thomas J.
; APPLICANT:Lee, Gary
; APPLICANT:Liu, Jingdong
; APPLICANT:Lutfiyya, Linda L.
; APPLICANT:Nelson, Donald E.
; APPLICANT:Wu, Jingrui
; APPLICANT:Xie, Zhidong
; TITLE OF INVENTION: Transgenic Plants with Enhanced Agronomic Traits
; FILE REFERENCE: 38-21(52016)A
; CURRENT APPLICATION NUMBER: US/11/982,010
; CURRENT FILING DATE: 2008-10-18
; PRIOR APPLICATION NUMBER: 10/678,588
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: 60/415,758
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/425,157
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: 60/463,787
; PRIOR FILING DATE: 2003-04-18
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; PRIOR APPLICATION NUMBER: 60/337,358
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 10/438,246
; PRIOR FILING DATE: 2003-05-14
; PRIOR APPLICATION NUMBER: 10/155,881
; PRIOR FILING DATE: 2002-05-22
; PRIOR APPLICATION NUMBER: 09/816,660
; PRIOR FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: 09/733,089
; PRIOR FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: 09/565,306
; PRIOR FILING DATE: 2000-05-04
; PRIOR APPLICATION NUMBER: 60/132,860
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 10/424,599
; PRIOR FILING DATE: 2003-04-28
; PRIOR APPLICATION NUMBER: 09/985,678
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 09/304,517
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 09/874,708
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: 60/211,750
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 09/684,016
; PRIOR FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: 10/425,114
; PRIOR FILING DATE: 2003-04-28
; PRIOR APPLICATION NUMBER: 10/219,999
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: 60/312,544
; PRIOR FILING DATE: 2001-08-15

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; PRIOR APPLICATION NUMBER: 60/324,109
; PRIOR FILING DATE: 2001-09-21
; PRIOR APPLICATION NUMBER: 11/491,125
; PRIOR FILING DATE: 2006-08-24
; PRIOR APPLICATION NUMBER: 60/144,351
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/163,469
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: 60/177,203
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: 60/184,162
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 09/620,392
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 1962
; SEQ ID NO 1020
; LENGTH: 1511
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-11-982-010-1020

```

Query Match 18.0%; Score 602; DB 2; Length 1511;
 Best Local Similarity 28.5%; Pred. No. 3.2e-48;
 Matches 187; Conservative 121; Mismatches 257; Indels 92; Gaps 24;

```

Qy      35 AVLSFHNICYRVKLSGFLPCRKPVEKEILSNINGIMKPG-LNAILGPTGGGKSSLLDVL 93
      | : |:| :|:| : | :|:|:| :|:| | :|:| :| |:|:| |
Db      867 AIFHWRNLCYEVQIKA-----ETRRILNNVDGWVPGTLTALMGASGAGKTLLDCL 918

Qy      94 AARKDPGSLGSDVLINGAPRPANFKCNSGYVVQDDVVMGTLTVRENLFQSAALRLATTMT 153
      | | :|:|:|:| | | : | : | | : | :|:|:|:| | | :|
Db      919 AERVMTGVITGDILVNGIPRDKSFPRSIGYCCQQDLHLKLTATVRESLRFSAAYLRQPAEVS 978

Qy     154 NHEKNERINRVIQELGLDKVADSKVGTQFIRGVSGGERKRTSIGMELITDPSIL-FLDEP 212
      ||| : | | : | :| | | | :| :| | :|:| | | :| | | |
Db     979 IEKNRYVEEVIKILEMEKYADAVVGAG-EGLNVEQKRRLTIGVELTAKPKLLVFLDEP 1037

Qy     213 TTGLDSSTANAVLLLLKRMSKQGRTIIFSIHQPRYSIFKFLDSSLTL-ASGRLMFHGPAQ 271
      |:| | | | : | :|:| :| :| :|:| | :| | | :| :| :|
Db    1038 TSLGDSQTAWSCICQLMKKLANHGQAILCTIHQPSAILMQEFDRLLFMRGGKTVYFGDLG 1097

Qy     272 EA----LGYFESAGYH-CEAYNNPADFFLDIINGDSTAVALNREEDFKATEIEPSKQDK 326
      | : | | | | | | | | | | :|:| :|:| :| :| :|
Db    1098 EGCKTMDIFYESHGAHKCPADANPAEWMLEV---GAAPGSHANQDY----- 1141

Qy     327 PLIEKLAEIYVNSSFYKETKAELHQLSGG-EKKKKITVFKE-ISYTTSFCHQLRWVSKRS 384
      |:| | | | :| :|:| :| :| | | :| :| :| :| :| |
Db    1142 -----YEVWRNSEEYRAVQSELDWMERELPKKGSITAEADKHEFSQSIIYQTKLVSIRL 1195

Qy     385 FKNLLGNFQASIAQIIVTVVLGLVIGAIYFGLKNDSTGIQNRAGVLFFLTITNQCFSSVSA 444
      | : | : | :|:| :| | :| :| :| :| :| :| :| :|
Db    1196 FQQYWRSPDYLSKSFILTFNQFLIGFTFFKAGTSLQGLQNQLMAVFMFTV--IFNPILQ 1253

Qy     445 VEL--FVVEKKLF-IHEYISGYRVSSYFLGKLLSDLLPMTMLPSIIFTCIVYFMLGLKP 501
      | | | :| :| :| :| :| :| :| :| :| :| :| :|
Db    1254 QYLPSPVQQORDLYEARERPRTFSWISFIFAQIFVE-VPWNILAGTIAYFIYYYYPIGFYS 1312

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Qy      502 KADAFFVM-----MFTLMMVAY--SASSMALAIAAGQSVVSVATLLMTCFVMMIFSGL 554
      | | : : | | : | | | : : | | | : | : | | :
Db      1313 NASAAGQLHERGALFWLFSCAFYVYVGSMLLVISFNQVAESAANLASLLFTMSLSFCGV 1372

Qy      555 LVNLTTIAS-WL-----SWLQYF-----SIPRYGFTALQHNE 585
      : : : : : | | | | | | | | | | | | | | |
Db      1373 MTTPSAMFRWFIFMYRVSPITYFIQALLAVGVANVDVKADYELLEFTPPSGMTCGQYME 1432

Qy      586 ----FLGQNFCPLNATGNNPCNYA-TCTGEEYLVKQGIDLSPWGLWKNHVALACMI 637
      : | | | : | : : | : | | | | : | : | |
Db      1433 PYLQAKTYGLTDENAT--DTCSEFCQISTTNDYLANVNSFYSE--RWRNYGIFICYI 1485

```

RESULT 2

US-11-982-274-1020

; Sequence 1020, Application US/11982274

; Publication No. US20090049573A1

; GENERAL INFORMATION

; APPLICANT: Adams, Thomas H

; APPLICANT:Dotson, Stanton B.

; APPLICANT:Edgerton, Michael D

; APPLICANT:Lee, Gary

; APPLICANT:Nelson, Donald E.

; APPLICANT:Wu, Jingrui

; APPLICANT:Xie, Zhidong

; TITLE OF INVENTION: Transgenic Plants with Enhanced Agronomic Traits

; FILE REFERENCE: 38-21(52596)A

; CURRENT APPLICATION NUMBER: US/11/982,274

; CURRENT FILING DATE: 2008-10-04

; PRIOR APPLICATION NUMBER: 10/678,588

; PRIOR FILING DATE: 2003-10-02

; PRIOR APPLICATION NUMBER: 60/415,758

; PRIOR FILING DATE: 2002-10-02

; PRIOR APPLICATION NUMBER: 60/425,157

; PRIOR FILING DATE: 2002-11-08

; PRIOR APPLICATION NUMBER: 60/463,787

; PRIOR FILING DATE: 2003-04-18

; NUMBER OF SEQ ID NOS: 1962

; SEQ ID NO 1020

; LENGTH: 1511

; TYPE: PRT

; ORGANISM: *Saccharomyces cerevisiae*

US-11-982-274-1020

Query Match 18.0%; Score 602; DB 2; Length 1511;

Best Local Similarity 28.5%; Pred. No. 3.2e-48;

Matches 187; Conservative 121; Mismatches 257; Indels 92; Gaps 24;

```

Qy      35 AVLSFHNICYRVKLGSGFLPCRKPVEKEILSNINGIMKPG-LNAILGPTGGGKSSLLDVL 93
      | : : | : | : | : : : | : | : | : | : | : | : |
Db      867 AIFHWRNLCYEVQIKA-----ETRRILNNVDGVKPGTLTALMGASGAKTTLLDCL 918

Qy      94 AARKDPSGLSGDVLINGAPRPANFKCNSGYVQDDVVMGTLTVRENLFQSAALRLATTMT 153
      | | : | : | : | : | : | : | : | : | : | : | : |
Db      919 AERVMTMGVITGDILVNGIPRDKSFPRSIGYCCQQDLHLKTATVRESLRFSAYLRQPAEVS 978

Qy      154 NHEKNERINRVIQELGLDKVADSKVGTQFIRGVSGGERKRTSIGMELITDPSIL-FLDEP 212

```

```

      ||| : ||: | ::| ||: ||      :: :||| :||:| | | :| ||||
Db      979 IEKNRYVEEVIKILEMEKYADAVVGAVG-EGLNVEQKRRLTIGVELTAKPKLLVFLDEP 1037

Qy      213 TTGLDSSSTANAVLLLLKRMSKQGRTIIFSIIHQPRYSIFKFLDSLTL-ASGRMLFHGPAQ 271
      |:|||| || :: |:|:: | : : :||| : : || | : |: :: |
Db      1038 TSGLDSQTAWSCIQLMKKLANHGQAILCTIHQPSAILMQEFDRLLFMRQGGKTVYFGDLG 1097

Qy      272 EA----LGVFESAGYH-CEAYNNPADFFLDIINGDSTAVLNREEDFKATEIIEPSKQDK 326
      | : ||| : ||| | | |||: |: : : : :
Db      1098 EGCKTMIDYFESHGAHKCPADANPAEWMLEVV---GAAPGSHANQDY----- 1141

Qy      327 PLIEKLAEIYVNSSFYKETKAELHQLSGG-EKKKKITVFKE-ISYTSFCHQLRWVSKRS 384
      |: || | : : || : || || : : : | : | : | |
Db      1142 -----YEVWRNSEEYRAVQSELDWMERELPKKGSITAAEDKHFESQSIIYQTKLVSIRL 1195

Qy      385 FKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKNDSTGIQNRAGVLFLLTNNQCFSSVSA 444
      |: :| : : |:| | || :| :||: :| | | : :
Db      1196 FQQYWRSPDYLSWKFIITFNQLFIFGTFFKAGTSLQGLQNLAVFMFTV--IFNPILQ 1253

Qy      445 VEL--FVVEKKLF-IHEYISGYRVSSYFLGKLLSDLLPMTMLPSIIFTCIVYFMLGLKP 501
      || :||: || : | : | : : || : | : | : | : |
Db      1254 QYLPSPVQQORDLYEARERPRTFSWISFIFAQIFVE-VPWNILAGTIAYFIYYPIGFYS 1312

Qy      502 KADAFVVM-----MFTLMMVAY--SASSMALAIAAGQSVSVATLLMTICFVFMFISGL 554
      | | : : || | : || | : : | : | : | : | : |
Db      1313 NASAAGQLHERGALFWLFSCAFVYVVGSMGLLVISFNQVAESAANLASLLFTMSLSFCGV 1372

Qy      555 LVNLTIIAS-WL----SWLQYF-----SIPRYGFTALQHNE 585
      : : : | | || | | | | | | | : |
Db      1373 MTPPSAMPRFWIFMYRVSPITYFIQALLAVGVANVDVKCADYELLETPPSGMTCGQYME 1432

Qy      586 ---FLGQNFPCPLNATGNNPCNYA-TCTGEEYLVKQIDLSPWGLWKNHVALACMI 637
      : ||| : |: : | :|| | | | | |: : |
Db      1433 PYLQLAKTYGLTDENAT--DTCSEFCQISTTNDYLANVNSFYSE--RWRNYGIFICYI 1485

```

RESULT 3

US-11-769-326-53

; Sequence 53, Application US/11769326

; Publication No. US20090047277A1

; GENERAL INFORMATION:

; APPLICANT: Reed, Jennifer Lynne

; TITLE OF INVENTION: RECOMBINANT IL-9 ANTIBODIES AND USES

; TITLE OF INVENTION: THEREOF

; FILE REFERENCE: 10271-112-999

; CURRENT APPLICATION NUMBER: US/11/769,326

; CURRENT FILING DATE: 2007-07-02

; PRIOR APPLICATION NUMBER: US/10/823,253A

; PRIOR FILING DATE: 2004-04-12

; PRIOR APPLICATION NUMBER: 60/477,797

; PRIOR FILING DATE: 2003-06-10

; PRIOR APPLICATION NUMBER: 60/462,259

; PRIOR FILING DATE: 2003-04-11

; NUMBER OF SEQ ID NOS: 65

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 53

; LENGTH: 808

; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-11-769-326-53

Query Match 4.9%; Score 163; DB 2; Length 808;
 Best Local Similarity 25.4%; Pred. No. 1.5e-07;
 Matches 63; Conservative 48; Mismatches 97; Indels 40; Gaps 11;

```

Qy      63 ILSNINGIMKPG-LNALIGPTGGGKSSLLDVLAAKDPSSGLSGDVLINGAPRANFKNS 121
      :| : :|| :|:| | |||: :| :| | :|:| | | :
Db      580 VLQGLTFTLRPGEVTALVGPNGSGKSTVAALLQNLQYQPTG--GQLLLDGKPLP---QYEH 634

Qy      122 GY-----VVQDDVVMGTLTVRENLFQSAALRLATTMTNHEKNERINRVIQE----- 167
      | | | : | | :|:| : :| :| | :
Db      635 RYLHRQVAAVGQEPQVFGRLQENIAYG-----LTQKPTMEEITAAAVKSGAHSFI 685

Qy      168 LGLDKVADSKV---GTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSSTANAV 224
      || : ||:| | :| :||:| : :| | :| | :| :| :| :
Db      686 SGLPQGYDTEVDEAGSQ---LSGGQRQAVALARALIRKPCVLLDDATSALDANSQLQV 741

Qy      225 LLLLKRMSKQGRTIIFSIIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHC 284
      || : : : | | : : | : | : | : | :| :| :
Db      742 EQLLYESPEYRSRSLVLLITQ-HLSLVEQADHILFLEGGAIREGGTHQQLM---EKKGCYW 797

Qy      285 EAYNNPAD 292
      |||
Db      798 AMVQAPAD 805
  
```

RESULT 4

US-11-982-010-1472

; Sequence 1472, Application US/11982010
 ; Publication No. US20090044297A1

; GENERAL INFORMATION

; APPLICANT: Adams, Thomas R
 ; APPLICANT: Andersen, Scott E.
 ; APPLICANT: Cao, Yongwei
 ; APPLICANT: Conner, Timothy W.
 ; APPLICANT: Dotson, Stanton B.
 ; APPLICANT: Edgerton, Michael D
 ; APPLICANT: Heck, Gregory R.
 ; APPLICANT: Kovalic, David K.
 ; APPLICANT: La Rosa, Thomas J.
 ; APPLICANT: Lee, Gary
 ; APPLICANT: Liu, Jingdong
 ; APPLICANT: Lutfiyya, Linda L.
 ; APPLICANT: Nelson, Donald E.
 ; APPLICANT: Wu, Jingrui
 ; APPLICANT: Xie, Zhidong
 ; TITLE OF INVENTION: Transgenic Plants with Enhanced Agronomic Traits
 ; FILE REFERENCE: 38-21(52016)A
 ; CURRENT APPLICATION NUMBER: US/11/982,010
 ; CURRENT FILING DATE: 2008-10-18
 ; PRIOR APPLICATION NUMBER: 10/678,588
 ; PRIOR FILING DATE: 2003-10-02
 ; PRIOR APPLICATION NUMBER: 60/415,758
 ; PRIOR FILING DATE: 2002-10-02

; PRIOR APPLICATION NUMBER: 60/425,157
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: 60/463,787
; PRIOR FILING DATE: 2003-04-18
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; PRIOR APPLICATION NUMBER: 60/337,358
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 10/438,246
; PRIOR FILING DATE: 2003-05-14
; PRIOR APPLICATION NUMBER: 10/155,881
; PRIOR FILING DATE: 2002-05-22
; PRIOR APPLICATION NUMBER: 09/816,660
; PRIOR FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: 09/733,089
; PRIOR FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: 09/565,306
; PRIOR FILING DATE: 2000-05-04
; PRIOR APPLICATION NUMBER: 60/132,860
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 10/424,599
; PRIOR FILING DATE: 2003-04-28
; PRIOR APPLICATION NUMBER: 09/985,678
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 09/304,517
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 09/874,708
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: 60/211,750
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 09/684,016
; PRIOR FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: 10/425,114
; PRIOR FILING DATE: 2003-04-28
; PRIOR APPLICATION NUMBER: 10/219,999
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: 60/312,544
; PRIOR FILING DATE: 2001-08-15
; PRIOR APPLICATION NUMBER: 60/324,109
; PRIOR FILING DATE: 2001-09-21
; PRIOR APPLICATION NUMBER: 11/491,125
; PRIOR FILING DATE: 2006-08-24
; PRIOR APPLICATION NUMBER: 60/144,351
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/163,469
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: 60/177,203
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: 60/184,162
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 09/620,392
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 1962
; SEQ ID NO 1472
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana

US-11-982-010-1472

Query Match 2.6%; Score 86; DB 2; Length 509;
 Best Local Similarity 18.8%; Pred. No. 1.2;
 Matches 73; Conservative 53; Mismatches 126; Indels 136; Gaps 17;

```

Qy      333 AEIYVNSSFYKETKAELHQLSGGEEKKKITVFKEISYTTSFCHQLRWVSKRSFKNLLGNP 392
      || :: ||:: || ::|| :: | :: : || |
Db      6 AERAANNATALETQSSPEDLSQPSPLRKIISVASIAAGVQFGWALQLSLLTPYIQLLGIP 65

Qy      393 Q-----ASIAQIIVTVVLG-----LVIGAIY----- 413
      | : || :: | || ::|
Db      66 HKWSSYMWLCGPISGMIVQPIVGYHSDRCESRFGRRRPFIAAGVALVAVSVFLIGFAADM 125

Qy      414 ---FGLKNDSTGIQNRAGVLFFLT-----TNQ 437
      || | :: :: || :: || |
Db      126 GHSFGDKLENK-VRTRA-IIIFLTGFWFLDVANNTLQGPCRAFLADLAAGDAKTRVANA 183

Qy      438 CFSVSSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLPMTMLPSIIFTCIVYFML 497
      ||| || : | : | | | : | | : | : |
Db      184 CFSFMAVG-----NVLGYAAGSY-----TNLHKMFPTMTKA----CDIY-CA 222

Qy      498 GLKPKADAFFVMMFTLMMVAYSAAA---SSMALAIAAGQSVSVATLLMTICFVMMIFSG 553
      || || : :: || : : : | : : | | |
Db      223 NLK---TCFFLSITLLIVTFSSLYWKDKQWSPQGDKEEKTSSL----FFFGEIFGA 274

Qy      554 -----LLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGNNPCNY 605
      :: : | : :: : | : : : | : : |
Db      275 VRHMKRPMVLLIVTVINWIAWFPI-----LYDTDWMGREVYGG-NSDGE---- 320

Qy      606 ATCTGEEYLKQGIDLSPWGLWKNHVAL 633
      : | || : || | : |
Db      321 ----RSKKLYDQGVQAGALGLMFNSILL 344

```

RESULT 5

US-11-982-274-1472

; Sequence 1472, Application US/11982274

; Publication No. US20090049573A1

; GENERAL INFORMATION

; APPLICANT: Adams, Thomas H

; APPLICANT:Dotson, Stanton B.

; APPLICANT:Edgerton, Michael D

; APPLICANT:Lee, Gary

; APPLICANT:Nelson, Donald E.

; APPLICANT:Wu, Jingrui

; APPLICANT:Xie, Zhidong

; TITLE OF INVENTION: Transgenic Plants with Enhanced Agronomic Traits

; FILE REFERENCE: 38-21(52596)A

; CURRENT APPLICATION NUMBER: US/11/982,274

; CURRENT FILING DATE: 2008-10-04

; PRIOR APPLICATION NUMBER: 10/678,588

; PRIOR FILING DATE: 2003-10-02

; PRIOR APPLICATION NUMBER: 60/415,758

; PRIOR FILING DATE: 2002-10-02

; PRIOR APPLICATION NUMBER: 60/425,157

; PRIOR FILING DATE: 2002-11-08

```
; PRIOR APPLICATION NUMBER: 60/463,787
; PRIOR FILING DATE: 2003-04-18
; NUMBER OF SEQ ID NOS: 1962
; SEQ ID NO 1472
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-11-982-274-1472
```

```
Query Match          2.6%; Score 86; DB 2; Length 509;
Best Local Similarity 18.8%; Pred. No. 1.2;
Matches 73; Conservative 53; Mismatches 126; Indels 136; Gaps 17;
```

```
Qy      333 AEIYVNSSFYKETKAELHLQSGGEEKKKITVFKEISYTTSFCHQLRWVSKRSFKNLLGNP 392
      || :: ||:: || |:: || |:: |:: |:: |:: |:: |:: |:: |:: |:: |:: |
Db      6 AERAANNATALETQSSPEDLSQPSPLRKIIISVASIAAGVQFGWALQLSLLTPYIQLLGIP 65

Qy      393 Q-----ASIAQIIIVTVVLG-----LVIGAIY----- 413
      |:: ||:: ||:: ||:: ||:: ||:: ||:: ||:: ||:: ||:: ||:: ||:: ||:: ||
Db      66 HKWSSYMWLCGPISGMIVQPIVGYHSDRCESRFGRRRPFIAAGVALVAVSVFLIGFAADM 125

Qy      414 ---FGLKNDSTGIQNRAGVLFFLT-----TNQ 437
      || |:: :: || :: || |
Db      126 GHSFGDKLENK-VRTRA-IIIFLTGFWFLDVANNLTQGPCRAFLADLAAGDAKKTRVANA 183

Qy      438 CFSVSVAVELFVVEKKLFIHEYISGYRVSYYFLGKLLSDLLPMTMLPSIIFTCIVYFML 497
      || | || |:: |:: |:: |:: |:: |:: |:: |:: |:: |:: |:: |:: |:: |:: |
Db      184 CFSFFMAVG-----NVLGYAAGSY-----TNLHKMFPFTMTKA---CDIY-CA 222

Qy      498 GLKPKADAFFVMMFTLMMVAYS-----SSMALAIAAGQSVVSVATLLMTICFVMMIFSG 553
      || ||:: |:: |:: |:: |:: |:: |:: |:: |:: |:: |:: |:: |:: |:: |
Db      223 NLK---TCFFLSITLLLIVTFSSSLWYVKDKQWSPQGDKEEKTSSL-----FFFGEIFGA 274

Qy      554 -----LLVNLTIIASWSLWQYFSIPRYGFTALQHNEFLGQNFQPLNATGNNNPCNY 605
      :::: |:: |:: |:: |:: |:: |:: |:: |:: |:: |:: |:: |:: |:: |:: |
Db      275 VRHMKRPMVMLLIVTVINWIAWFFFI-----LYDTDMWGREVYGG-NSGDGE---- 320

Qy      606 ATCTGEEYLVKQGDIDLSPWGLWKNHVAL 633
      : | ||: || |:: |
Db      321 ----RSKKLYDQGVQAGALGLMFNSILL 344
```

RESULT 6

US-12-089-646-8

```
; Sequence 8, Application US/12089646
; Publication No. US20090042219A1
; GENERAL INFORMATION
; APPLICANT: MORIYAMA et al.
; TITLE OF INVENTION: Novel Transporter Protein in Mammal and Utilization of the Same
; FILE REFERENCE: 14119.105012
; CURRENT APPLICATION NUMBER: US/12/089,646
; CURRENT FILING DATE: 2008-04-09
; PRIOR APPLICATION NUMBER: PCT/JP2006/320409
; PRIOR FILING DATE: 2006-10-12
; PRIOR APPLICATION NUMBER: JP 2005-300851
; PRIOR FILING DATE: 2005-10-14
; PRIOR APPLICATION NUMBER: JP 2006-156458
```

```
; PRIOR FILING DATE: 2006-06-05
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 573
; TYPE: PRT
; ORGANISM: mouse
US-12-089-646-8
```

```
Query Match          2.5%; Score 85; DB 3; Length 573;
Best Local Similarity 21.9%; Pred. No. 1.8;
Matches 88; Conservative 54; Mismatches 141; Indels 118; Gaps 21;
```

```
Qy      304  AVALNREEDFKATEIIEPSKQDKPLIEKLAIEIYVNSSFYKETKAELHQLSGGEKKKKITV 363
      | : | | | : : : | | : : | : | : | | |
Db      141  AIFLNTE-----RLLLLLRQD-PDVARLAQVYVMICIPALPAAFLEFQL----- 182

Qy      364  FKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLV-IGAIYFGLKNDSTG 422
      | : : : : : : : : : : : : : : | | |
Db      183  -----QTRYLQSQGI-----IMPQVIVGIAANVVNVGMNAFLLYALDLG 221

Qy      423  IQNRAGVLFLLTTNQCFSSVAVELFVVEKKLFIHEYISGYRV-----SSYFLGKLLSD 477
      : | : | : | : | : | : | : | : | : | |
Db      222  V---VGSAWANTTSQFFLS-ALLFLYVWVKRIHIHTW-GGWTRCEQEWSSY----- 268

Qy      478  LLPMTMLPSIIFTCIVY-----FMLGLKPKAD-AFFVMMFTLMMVAYS-----ASS 522
      : | : | : | : | : | : : : : : : : | |
Db      269  --TRLAIPSMFMVCIEWWTFEIGTFLAGLVNVTLEGAQAVIYELASVAYMVPFGFGVAAS 326

Qy      523  MAL--AIAAG---QSVSVSATLLMT--ICFVFMMIFSGLL-----VNLTTIASWLSW 567
      : : | : | | : | : | : : : | : | : | : |
Db      327  VRVGNALGAGNADQARCSCTTVLLCAGVCALLVGGILLAALKDVVAYIFTNDKDIISLVSQ 386

Qy      568  LQYFSIPRYGFTALQHNEFLGQNFPCPG-----LNATGNNPCNYATCTGEEYL 614
      : | : | | | | | | | | | | : : :
Db      387  VMPIFAPFHLFDAL-----AGTCGGVLRGTGKQKIGAVLNTIGYYGFGPIGVSLMFA 439

Qy      615  VKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLFLFKKYS 655
      | | | | | : : | : | : | : |
Db      440  AKLGI---IGLWAGLI---VCVSPQAFSYLIYILRTNWS 472
```

RESULT 7

```
US-12-171-923-18
; Sequence 18, Application US/12171923
; Publication No. US20090047295A1
; GENERAL INFORMATION
; APPLICANT: BERRY, DAVID ARTHUR
; APPLICANT: DEVROE, ERIC JAMES
; APPLICANT: AFEYAN, NOUBAR BOGHOS
; APPLICANT: CHEVALIER, BRETT
; APPLICANT: REDDY, SASHANK KURAPATI
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR REDUCING STEMNESS IN ONCOGENESIS
; FILE REFERENCE: LSC-001
; CURRENT APPLICATION NUMBER: US/12/171,923
; CURRENT FILING DATE: 2008-07-11
; PRIOR APPLICATION NUMBER: 60/949,409
```

; PRIOR FILING DATE: 2007-07-12
; NUMBER OF SEQ ID NOS: 1126
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 18
; LENGTH: 500
; TYPE: PRT
; ORGANISM: Homo sapiens
US-12-171-923-18

Query Match 2.5%; Score 83.5; DB 3; Length 500;
Best Local Similarity 18.3%; Pred. No. 2;
Matches 65; Conservative 61; Mismatches 151; Indels 79; Gaps 16;

Qy	65	SNINGIMKPLGNAILGPTGGG--KSSLLDLVLAARKDPSGLSGDVLINGAPRPANFKCN--	120
		:: : : : : : : : :: :	
Db	51	THANGLDSPPMFAGAG-LGGTPCRKSYEDCASGIMEDSAIKCEYMLNAIPKRLCLVCGDI	109
Qy	121	-SGY---VVQDDVVMGTL--TVRENLFQSAALRLATTMTNHEKNE-----RINRV	164
		: : : : : : : : : :	
Db	110	ASGYHYGVASCEACKAFFKRTIQGNIEYSCPATNECEITKRRRKSCQACRFMKCLKVGML	169
Qy	165	IQELGLDKV-----ADSKVGTQFIRGVSGGERKRTS--IGMELITDPSILFLDEP	212
		: : : : : : : : : :	
Db	170	KEGVRDLRVGRGRQKYKRRLDSESSPYLSLQISPPAKKPLTKIVSYLLVAEPDKLYA-MP	228
Qy	213	TTGLDSSTANAVLLLLKRMSKQGRITII-FSIHQPRYSIFKLFDSLTLASG--RLMFHGP	269
		: : : : : : : : : : : :	
Db	229	PPGMEPGDIKALTTLCDLADRELVVIIGWAKHIPGSSLSLGDQMSLLQSAWMEILILGI	288
Qy	270	AQEALGYFESAGYHCEAYNNPADFFLDIINGDSTAVALNREEDFKATEIIEPSKQDKPLI	329
		: : : : : : : : : :	
Db	289	VYRSLPYDDKLVY-----AEDYIMD-----EEHSRLAGLLELYRAILQLV	328
Qy	330	EKLAEIYVNSSFYKETKAELHQLSGGEKKKITVFKEISYTTs---FCHQLRWVSK	382
		: : : : : : : :	
Db	329	RR-----YKCLKVE-----KEEFVTLKALALANSDSMYIEDLEAVQK	365

RESULT 8

US-12-177-925-4

; Sequence 4, Application US/12177925
; Publication No. US20090047736A1
; GENERAL INFORMATION

; APPLICANT: ADLER, JON ELLIOT
; APPLICANT: LI, XIAODONG
; APPLICANT: STASZEWSKI, LENA
; APPLICANT: O'CONNELL, SHAWN
; APPLICANT: ZOZULYA, SERGEY

; TITLE OF INVENTION: HUMAN T1R2 NUCLEIC ACID SEQUENCES AND POLYPEPTIDES
; FILE REFERENCE: 67824.428926
; CURRENT APPLICATION NUMBER: US/12/177,925
; CURRENT FILING DATE: 2008-10-06
; PRIOR APPLICATION NUMBER: 10/725,284
; PRIOR FILING DATE: 2003-12-02
; PRIOR APPLICATION NUMBER: 10/035,045
; PRIOR FILING DATE: 2002-01-03
; PRIOR APPLICATION NUMBER: 60/259,227

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; PRIOR FILING DATE: 2001-01-03
; PRIOR APPLICATION NUMBER: 60/284,547
; PRIOR FILING DATE: 2001-04-19
; NUMBER OF SEQ ID NOS: 24
; SEQ ID NO 4
; LENGTH: 852
; TYPE: PRT
; ORGANISM: Homo sapiens
US-12-177-925-4

```

```

Query Match      2.5%; Score 82.5; DB 3; Length 852;
Best Local Similarity 21.1%; Pred. No. 5.8;
Matches 70; Conservative 39; Mismatches 110; Indels 113; Gaps 14;

```

```

Qy      372 SFCHQLRWVSKRS---FKN-----LLGNPQASIAQIIIVTVVLGLVIGAI-YFGLKNDSTG 422
      :|| | | :|| | : | | : : : : ||| : | : | |
Db      539 TFCQGEWSPERSTRCFRRRSRFLAWGEPVLLLLLLLSLALGLVLAALGLFVHHRD SPL 598

Qy      423 IQNRAG-----VLFF-----LTTNQCFSS--VSAVEL 447
      :| | | | | | | | | | | | | | : | : | : |
Db      599 VQASGGPLACFGLVCLGLVCLSVLLFPQGQSPARCLAQQPLSHLPLTGCLSTLFLQA AEI 658

Qy      448 FV-VEKKLFIHEYISGYRVSSYFLGKLLSDLLPMTLPSIIFTCIVYFMLGLKPKADAF 506
      || | | : : || | : | || : : : : : : : | :
Db      659 FVESELPLSWADRLSGCLRGPAWLVVLLAMLVEVAL-----CTWYLVAFPPEVVD 710

Qy      507 FVMFETLMV---AYSASSMALAIAAGQSVSVSA-----TLLMTI 543
      : | : | : | | | | | | : : : : | |
Db      711 WHMLPTEALVHCRTRSWVSEGLAHATNATLAFLCFLGTFLVRSQPGCYNRARGLT FAMLA 770

Qy      544 CFVFMFISGLLVNLTII-----ASWLSWLQYFSPRYGFTALQHNEFLGQNFC 592
      | : : | | | : : | | | | : | |
Db      771 YFITWSEFVPLLNAVQVVLPAVQMGALLLCVLGILAAFHLPFCYLLMRQ----- 820

Qy      593 PGLN-----ATGNNPCNYATCTGEE 612
      |||| | | | | | :
Db      821 PGLNTPFEFFLGGGPGDAQGQNDGN----TGNQ 848

```

RESULT 9

US-11-982-010-1262

; Sequence 1262, Application US/11982010

; Publication No. US20090044297A1

; GENERAL INFORMATION

; APPLICANT: Adams, Thomas R

; APPLICANT: Andersen, Scott E.

; APPLICANT: Cao, Yongwei

; APPLICANT: Conner, Timothy W.

; APPLICANT: Dotson, Stanton B.

; APPLICANT: Edgerton, Michael D

; APPLICANT: Heck, Gregory R.

; APPLICANT: Kovalic, David K.

; APPLICANT: La Rosa, Thomas J.

; APPLICANT: Lee, Gary

; APPLICANT: Liu, Jingdong

; APPLICANT: Lutfiyya, Linda L.

; APPLICANT: Nelson, Donald E.

; APPLICANT:Wu, Jingrui
; APPLICANT:Xie, Zhidong
; TITLE OF INVENTION: Transgenic Plants with Enhanced Agronomic Traits
; FILE REFERENCE: 38-21(52016)A
; CURRENT APPLICATION NUMBER: US/11/982,010
; CURRENT FILING DATE: 2008-10-18
; PRIOR APPLICATION NUMBER: 10/678,588
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: 60/415,758
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/425,157
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: 60/463,787
; PRIOR FILING DATE: 2003-04-18
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; PRIOR APPLICATION NUMBER: 60/337,358
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 10/438,246
; PRIOR FILING DATE: 2003-05-14
; PRIOR APPLICATION NUMBER: 10/155,881
; PRIOR FILING DATE: 2002-05-22
; PRIOR APPLICATION NUMBER: 09/816,660
; PRIOR FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: 09/733,089
; PRIOR FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: 09/565,306
; PRIOR FILING DATE: 2000-05-04
; PRIOR APPLICATION NUMBER: 60/132,860
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 10/424,599
; PRIOR FILING DATE: 2003-04-28
; PRIOR APPLICATION NUMBER: 09/985,678
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 09/304,517
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 09/874,708
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: 60/211,750
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 09/684,016
; PRIOR FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: 10/425,114
; PRIOR FILING DATE: 2003-04-28
; PRIOR APPLICATION NUMBER: 10/219,999
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: 60/312,544
; PRIOR FILING DATE: 2001-08-15
; PRIOR APPLICATION NUMBER: 60/324,109
; PRIOR FILING DATE: 2001-09-21
; PRIOR APPLICATION NUMBER: 11/491,125
; PRIOR FILING DATE: 2006-08-24
; PRIOR APPLICATION NUMBER: 60/144,351
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/163,469
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: 60/177,203

```
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: 60/184,162
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 09/620,392
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 1962
; SEQ ID NO 1262
; LENGTH: 2513
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-11-982-010-1262
```

Query Match 2.5%; Score 82.5; DB 2; Length 2513;
 Best Local Similarity 19.6%; Pred. No. 32;
 Matches 106; Conservative 89; Mismatches 224; Indels 121; Gaps 27;

```
Qy      147 RLATTMTNHEKNERINRVIQELGL---DKVADSK-----VGTQFIRGVSGGERKRTSIG 197
      | : | : : : | : : | : : | : : | : : | : : | : : | : : | : : |
Db      1552 RAYSNMVRVQQLSELEEVEIYYTLPVGNITAEERRALIRNMWTQRIQ---GSKRNVEVW 1607

Qy      198 MELITDPSILFDEPTTGLDSSSTANAVLLLLKRMKSQGRTIIFS IHQPRYSIFKLFDSL 257
      | : : : | : : : | : : | : : | : : | : : | : : | : : | : : |
Db      1608 QALLAVRALVL--PPTEDVETWLKFASL-----CRKSGR-----ISQAKSTLLKLLPFDP 1655

Qy      258 LLASGRMLFHGPAQEALGYFE---SAGYHCEAYNPNADFFLDIINGDSTAVALNREEDFK 314
      : : : : | | | | | : | : | : | : | : | : : | : : | : : |
Db      1656 EVSPENMQYHGPPQVMLGYLKYQWSLGE--ERKRKEAFTKLQILTRELSSVP-HSQSDIL 1712

Qy      315 ATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKKITVFKEISYTSFC 374
      | : : : : : | : : : : : : : : : : | : | : | : : | : : | : : |
Db      1713 AS-MVSSKGANVPL---LARVNLKLG TWQ-----WALSSGLNDGSIQEIRD-AFDKSTC 1761

Qy      375 HQLRWVSK---RSFKNLLGNPQASIAQIIVTVVLGLVIGAIY-FGLKNDSTGIQNRAGV 429
      : : | : : | : : | : : | : : | : : | : : | : : | : : | : : |
Db      1762 YAPKAWAKAWHTWALFNATVMSHYISRGQIASQYVVSAVTGYFYSIACAANAKGVDDSLQD 1821

Qy      430 LFFLTNTQCFFSSVSAVELFVVEKKLFIEHYISGYRVSYSYFLGKLLSDLLPM-TMLPSII 488
      : | | | : : : : | | | : : | : : | : : | : : | : : | : : |
Db      1822 ILRLLT-LWFNHGATADVQALTGTFSHVNTINTWLVLPQIIARIHSNNRAVRELIIQSLL 1880

Qy      489 FTCIVYFMLGLK-PKADAFFVMMFTLMMVAYSASSMALAIAAGQSVSVATLLMTICVF 547
      : | | | : : : : : : : : : : | : | | | : : | : : | : : |
Db      1881 -----IRIGENHPQA-----LMYPLL VACKSISN--LRRAAAQEVVDK----- 1916

Qy      548 MMIFSGLLVNLTTIAS-----WLSWLQYFSIPRYG----- 577
      : | | | : : | : : | : : | : : | : : | : : | : : | : : |
Db      1917 VRQHS GALVDQAQLVSHELIRVAILWHEMWHEALEEASRLYFGEHNI EGMLKVLEPLHDM 1976

Qy      578 -----FTALQHNEFLG-QNFCPG-----LNATGNNPCNYATCTGEEYLVKQGIDL 621
      | : | : : | | | | : : | | | | : : | : : | : : | : : |
Db      1977 LDEGVK KDSSTIIQERAFIEVGNFNPGLAYRHELKEAHECCCNV-KITGKDAELTQAWDL 2035
```

RESULT 10
 US-11-982-274-1262
 ; Sequence 1262, Application US/11982274
 ; Publication No. US20090049573A1

```
; GENERAL INFORMATION
; APPLICANT: Adams, Thomas H
; APPLICANT:Dotson, Stanton B.
; APPLICANT:Edgerton, Michael D
; APPLICANT:Lee, Gary
; APPLICANT:Nelson, Donald E.
; APPLICANT:Wu, Jingrui
; APPLICANT:Xie, Zhidong
; TITLE OF INVENTION: Transgenic Plants with Enhanced Agronomic Traits
; FILE REFERENCE: 38-21(52596)A
; CURRENT APPLICATION NUMBER: US/11/982,274
; CURRENT FILING DATE: 2008-10-04
; PRIOR APPLICATION NUMBER: 10/678,588
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: 60/415,758
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/425,157
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: 60/463,787
; PRIOR FILING DATE: 2003-04-18
; NUMBER OF SEQ ID NOS: 1962
; SEQ ID NO 1262
; LENGTH: 2513
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-11-982-274-1262
```

Query Match 2.5%; Score 82.5; DB 2; Length 2513;
 Best Local Similarity 19.6%; Pred. No. 32;
 Matches 106; Conservative 89; Mismatches 224; Indels 121; Gaps 27;

```
Qy      147 RLATTMTNHEKNERINRVIELGL---DKVADSK-----VGTQFIRGVSGGERKRTSIG 197
      | : | : : : : : | : : : : : : : : : : : : : : : : : : : : : :
Db      1552 RAYSNMVRVQQLSELEEVIYYTLPGVNTIAEERRALIRNMWTQRIQ---GSKRNVEVW 1607

Qy      198 MELITDPSILFDEPTTGLDSSANAVLLLLKRMSKQGRTIIFSIIHQPRYSIFKLFDSL 257
      | : : : : : | : : : : : | : : : : : | : : : : : | : : : : :
Db      1608 QALLAVRALVL--PPTEDVETWLKFASL-----CRKSGR-----ISQAKSTLLKLLPFDP 1655

Qy      258 LLASGRMLFHGPAQEALGYFE---SAGYHCEAYNNPADFLLDIINGDSTAVALNREEDFK 314
      : : : : | | | | | | : | | | | | | : : : : | : : |
Db      1656 EVSPENMQYHGPPQVMLGYLKYQWSLGE--ERKRKEAFTKLQILTRELSSVP--HSQSDIL 1712

Qy      315 ATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEEKKKKITVFKEISYTTSF 374
      | : : : : : | : : : : : | : : : : : | : : : : : | : : : : :
Db      1713 AS-MVSSKGANVPL---LARVNLKLGTDWQ-----WALSSGLNDGSIQEIRD-AFDKSTC 1761

Qy      375 HQLRWVSK---RSFKNLLGNPQASIAQIIVTVVLGLVIGAIY-FGLKNDSTGIQNRAGV 429
      : : | | : : : : | : : | | : : | | : : : : : : : :
Db      1762 YAPKWAKAWHTWALFNTAVMSHYISRGQIASQYVVSAVTGYFYSIACAANAKGVDDSLQD 1821

Qy      430 LFFLTNTQCFSSVSAVELFVVEKKLFIEHYISGYRVSYYFLGKLLSDLLPM-TMLPSII 488
      : | | | : : : : | | | : : | : : | : : : : : : : :
Db      1822 ILRLLT-LWFNHGATADVQALKTGFSHVNINTWLVLPQIIARIHSNNRAVRELIIQSLL 1880

Qy      489 FTCIVYFMLGLK-PKADAFFVMFTLMMVAYSASSMALAIAAGQSVSVSATLLMTICVF 547
      : | : | : : | : : | : : | | | | |
```



```

US-12-135-071A-18
; Sequence 18, Application US/12135071A
; Publication No. US20090042254A1
; GENERAL INFORMATION
; APPLICANT: Dow Chemical
; APPLICANT:Retallack, Diane M
; APPLICANT:Mitchell, Jon C
; TITLE OF INVENTION: Expression of Soluble Antibody Fragment by Truncation of CH1 Domain
; FILE REFERENCE: 2971.01-8345US
; CURRENT APPLICATION NUMBER: US/12/135,071A
; CURRENT FILING DATE: 2008-06-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 479
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Chemically synthesized: Amino Acid Sequence Corresponding to Coding
region of pDOW3716
US-12-135-071A-18

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Query Match 2.4%; Score 82; DB 3; Length 479;
Best Local Similarity 20.6%; Pred. No. 2.6;
Matches 73; Conservative 50; Mismatches 138; Indels 94; Gaps 20;

Qy	80	GPTGG-----GKSSLLDV-LAARKDPS-----GLSGDVLINGA-----PRPANFK	118
		: : : : :	
Db	119	PGAGDAFDIIGQGGTTIVSSASTKGPSVFPLAPSSKSTSGGTAAALGCLVKDYFPEPVTVS	178
Qy	119	CNSGYVVQDDVVMGTLTVRENLQFSAALRLATTMT-----NHE-KNERIN	162
		: : : : : : :	
Db	179	WNSGALTS-----GVHTFPFVALQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSITKVD	233
Qy	163	RVIQELGLDKVADSKVGQTQIRGVSSGGERKRTSIGMELITDPSILFDEPTTGLDSSTAN	222
		: : : : : : : : : : :	
Db	234	KRVEPKSCMKLKRMAAMTF---VAAGVATANAVA-----DIQMTQSPST-LSASIGD	282
Qy	223	AVLLLLKR-----MSKQGRITIFSIHQPRYSIFKLFDLSLTLLASGRLMFHGPAQ	271
		: : : : : : : :	
Db	283	RVTITCRASEGIIHWLAWYQQKPGKA-----PKLLIYKA-SSLASGAPSRFSGSGSGT	334
Qy	272	E-----ALGYFESAGYHCEAYNN-PADFFLDIINGDSTAVALNREEDFKATEIIEPSKQ	324
		: : : : : : : : :	
Db	335	DFTLTISSLOPDDFATYYCOOYSNYPLTF-----GGGKLEIKRAVAAPSVFIFFPS-	388

QY	325	DKPLIEKLAEI--YVNSSFYKETKAEI---HQLSGGEEKKKKITV--FKEISYTS	372
		: : : : : : : : : : : :	
Db	387	DEQLKSGTASVCLLNFFYPREAKVQWKVDNALQSGNSQESVTEQDSKDYSL	441

RESULT 12

US-11-982-010-1221

; Sequence 1221, Application US/11982010

; Publication No. US20090044297A1

; GENERAL INFORMATION

; APPLICANT: Adams, Thomas R

; APPLICANT: Andersen, Scott E.

; APPLICANT: Cao, Yongwei

; APPLICANT: Conner, Timothy W.

; APPLICANT: Dotson, Stanton B.

; APPLICANT: Edgerton, Michael D

; APPLICANT: Heck, Gregory R.

; APPLICANT: Kovalic, David K.

; APPLICANT: La Rosa, Thomas J.

; APPLICANT: Lee, Gary

; APPLICANT: Liu, Jingdong

; APPLICANT: Lutfiyya, Linda L.

; APPLICANT: Nelson, Donald E.

; APPLICANT: Wu, Jingrui

; APPLICANT: Xie, Zhidong

; TITLE OF INVENTION: Transgenic Plants with Enhanced Agronomic Traits

; FILE REFERENCE: 38-21(52016)A

; CURRENT APPLICATION NUMBER: US/11/982,010

; CURRENT FILING DATE: 2008-10-18

; PRIOR APPLICATION NUMBER: 10/678,588

; PRIOR FILING DATE: 2003-10-02

; PRIOR APPLICATION NUMBER: 60/415,758

; PRIOR FILING DATE: 2002-10-02

; PRIOR APPLICATION NUMBER: 60/425,157

; PRIOR FILING DATE: 2002-11-08

; PRIOR APPLICATION NUMBER: 60/463,787

; PRIOR FILING DATE: 2003-04-18

; PRIOR APPLICATION NUMBER: 10/310,154

; PRIOR FILING DATE: 2002-12-04

; PRIOR APPLICATION NUMBER: 60/337,358

; PRIOR FILING DATE: 2001-12-04

; PRIOR APPLICATION NUMBER: 10/438,246

; PRIOR FILING DATE: 2003-05-14

; PRIOR APPLICATION NUMBER: 10/155,881

; PRIOR FILING DATE: 2002-05-22

; PRIOR APPLICATION NUMBER: 09/816,660

; PRIOR FILING DATE: 2001-03-26

; PRIOR APPLICATION NUMBER: 09/733,089

; PRIOR FILING DATE: 2000-12-11

; PRIOR APPLICATION NUMBER: 09/565,306

; PRIOR FILING DATE: 2000-05-04

; PRIOR APPLICATION NUMBER: 60/132,860

; PRIOR FILING DATE: 1999-05-07

; PRIOR APPLICATION NUMBER: 10/424,599

; PRIOR FILING DATE: 2003-04-28

; PRIOR APPLICATION NUMBER: 09/985,678

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; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 09/304,517
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 09/874,708
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: 60/211,750
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 09/684,016
; PRIOR FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: 10/425,114
; PRIOR FILING DATE: 2003-04-28
; PRIOR APPLICATION NUMBER: 10/219,999
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: 60/312,544
; PRIOR FILING DATE: 2001-08-15
; PRIOR APPLICATION NUMBER: 60/324,109
; PRIOR FILING DATE: 2001-09-21
; PRIOR APPLICATION NUMBER: 11/491,125
; PRIOR FILING DATE: 2006-08-24
; PRIOR APPLICATION NUMBER: 60/144,351
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/163,469
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: 60/177,203
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: 60/184,162
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 09/620,392
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 1962
; SEQ ID NO 1221
; LENGTH: 513
; TYPE: PRT
; ORGANISM: Glycine max
US-11-982-010-1221

```

Query Match 2.4%; Score 82; DB 2; Length 513;
Best Local Similarity 18.9%; Pred. No. 2.9;
Matches 104; Conservative 69; Mismatches 144; Indels 234; Gaps 27;

Qy	90	LDVLAARKDPSGLSGDVL-----NGAPRPANFKCNSGYVVQDDVVMGTLTVREN	140
Db	16	LATLAHLLPSDATSAAAILHPHRLSAPTDGLPPANLK-----GTLTV----	58
Qy	141	QFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGTQFIRGVSGGKERKTSIGMEL	200
		: : : : : : : : : :	
Db	59	-----VDERTGKKYQ---IEVTPDGTVRASDFKISSGKNDK---GLKL	96
Qy	201	ITDPSILFLDEPTTGLDSSSTANAVLLLLKRMSKQGRTIIFSIHQPRYSIFKLFDSLTL	260
		: : : : : :	
Db	97	Y-DPGYLNTPAVISRISYIDGDAGILRYR-----GYPIEDLAEKSTFTE	139
Qy	261	SGRLMFHG--PAQEALGYFESA-----GY	282
		: : : : : :	
Db	140	VSYLILYGNLPSESQLAWEFALSQHSAPVPGVLDMIESMPHDAHMGMLVNNAMSALS	199
Qy	283	HCEAYNNPADFFLDIINGDSTAVALNREEDFKATEIIEPSKO--DKPLIEKLAIEYVN	340

```

      | :| ||| ||| |                               ||| || : : :| ::
Db      200 HPDA--NPALKGLDIYN-----SKQVRDKQIARVIGKITTIAA 235

Qy      341 FYKETKAELHQLSGGEKKKKITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQII 400
      | :|| : : :||| :| :| ||:| ||: :| |
Db      236 -----AINLRLAG---RPPVLPSNKLSTENFLYMLDSFGNRSYK---PNPRLTRALDI 283

Qy      401 V-----TVVLGLVIGAIY---FGLKNDST-----G 422
      : : | :||:| | | :|
Db      284 IFVLHAEHEMNCSTSAVRHLSSSGVDVYTAIAG-AVGALYGPLHGGANEAVLKMLSEIGT 342

Qy      423 IQN-----RAGVLFLTTNQCFSSVS---AVELFVVE 451
      :| || | | | :| | :| :|
Db      343 VENIPAFIEGVKARKRKLSGFGHRVYKNYDPRAKVLRKL-TEEVFSIVGRDPLIEIAVAL 401

Qy      452 KKLFIHEYISGYRVSYYFLGKLLSDLLPMTMLPSI-IFTCIVYFMLGLKPKADAFFVMM 510
      :| : : ||: :| |:: : :| :| :| || :
Db      402 EKIALSD-----EYFIKRKL-----YPNVDFYSGLIYRAMGFQPE---FFTVL 441

Qy      511 FTL-MMVAYSA 520
      | : | | |
Db      442 FAIPRMAGYLA 452

```

RESULT 13

US-11-982-274-1221

; Sequence 1221, Application US/11982274

; Publication No. US20090049573A1

; GENERAL INFORMATION

; APPLICANT: Adams, Thomas H

; APPLICANT:Dotson, Stanton B.

; APPLICANT:Edgerton, Michael D

; APPLICANT:Lee, Gary

; APPLICANT:Nelson, Donald E.

; APPLICANT:Wu, Jingrui

; APPLICANT:Xie, Zhidong

; TITLE OF INVENTION: Transgenic Plants with Enhanced Agronomic Traits

; FILE REFERENCE: 38-21(52596)A

; CURRENT APPLICATION NUMBER: US/11/982,274

; CURRENT FILING DATE: 2008-10-04

; PRIOR APPLICATION NUMBER: 10/678,588

; PRIOR FILING DATE: 2003-10-02

; PRIOR APPLICATION NUMBER: 60/415,758

; PRIOR FILING DATE: 2002-10-02

; PRIOR APPLICATION NUMBER: 60/425,157

; PRIOR FILING DATE: 2002-11-08

; PRIOR APPLICATION NUMBER: 60/463,787

; PRIOR FILING DATE: 2003-04-18

; NUMBER OF SEQ ID NOS: 1962

; SEQ ID NO 1221

; LENGTH: 513

; TYPE: PRT

; ORGANISM: Glycine max

US-11-982-274-1221

Query Match 2.4%; Score 82; DB 2; Length 513;

Best Local Similarity 18.9%; Pred. No. 2.9;

Matches 104; Conservative 69; Mismatches 144; Indels 234; Gaps 27;

```

Qy      90 LDVLAARKDPSGLSGDVL-----NGAPRPANFKCNSGYVQDDVVMGTLTVREN 140
      | ||| || : | | ||| | ||||
Db      16 LATLAHLLPSDATSAAAILHPHRLSAPTGDLPANLK-----GTLTV---- 58

Qy     141 QFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGTQFIRGVSGGERKRTSIGMEL 200
      :|| : | :: | | : :| : : ||:|
Db      59 -----VDERTGKKYQ---IEVTPDGTVRASDFKKISSGKNK---GLKL 96

Qy     201 ITDPSILFLDEPTTGLDSSSTANAVLLLLKRMKSQGRTIIFSIHQPRYSIFKLFDSLTLLA 260
      || | : : :| :| : | | :|
Db      97 Y-DPGYLTNAPVISRISYIDGDAGILRYR-----GYPIEDLAEKSTFTE 139

Qy     261 SGRLMFHG--PAQEALGYFESA-----GY 282
      |: :| |: :| :| :| :
Db     140 VSYLLILYGNLPSESQLAEWEFALSQHSAPVQGVLDMIESMPHDAHMPGMLVNVAMSALSVF 199

Qy     283 HCEAYNNPADFFLDIINGDSTAVALNREEDFKATEIIEPSKQ--DKPLIEKLAEIYVNSS 340
      |:| ||| ||| | ||| || : : :| ::
Db     200 HPDA--NPALKGLDIYN-----SKQVRDKQIARVIGKITTIAA 235

Qy     341 FYKETKAELHQLSGGEKKKITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQII 400
      : :| : : : :||| :| :| :| :|
Db     236 -----AINRLLAG---RPPVLP SNKLSYTFENFLYMLDSFGNRSYK---PNPRLTRALDI 283

Qy     401 V-----TVVLGLVIGAIY---FGLKNDST-----G 422
      : | : | :||| | ||| :|
Db     284 IFVLHAEHEMNCSTSASVRLSSSGVDVYTAIAG-AVGALYGPLHGGANEAVLKMLSEIGT 342

Qy     423 IQN-----RAGVLFFLTNTQCFSSVS---AVELFVVE 451
      ::| || || | : || | :| :|
Db     343 VENIPAFIEGVKARKRKLSGFGHRVYKNYDPAKVLRLK-TEEVFSIVGRDPLIEIAVAL 401

Qy     452 KKLFIHEYISGYRVSSYFLGKLLSDLLPMTMLPSI-IFTCIVYFMLGLKPKKADAFVMM 510
      :| : : || : : || : : :| :| :| :|
Db     402 EKIALSD-----EYFIKRKL-----YPNVDFYSGLIYRAMGFQPE---FFTVL 441

Qy     511 FTL-MMVAYSA 520
      | : | | |
Db     442 FAIPRMAGYLA 452

```

RESULT 14

US-12-169-527-2468

; Sequence 2468, Application US/12169527

; Publication No. US20090049566A1

; GENERAL INFORMATION

; APPLICANT: Mendel Biotechnology, Inc.

; APPLICANT:ZHANG, James

; APPLICANT:HEMPEL, Frederick D

; APPLICANT:ADAM, Luc

; APPLICANT:PALYS, Joseph M

; TITLE OF INVENTION: IMPROVEMENT OF PLANT QUALITY WITH VARIOUS PROMOTERS

; FILE REFERENCE: MBI-0070-2CIP

; CURRENT APPLICATION NUMBER: US/12/169,527

; CURRENT FILING DATE: 2008-07-08

```
; NUMBER OF SEQ ID NOS: 10667
; SOFTWARE: PatentIn version 3.5
; SEQ ID NO 2468
; LENGTH: 322
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: G4631,bZIP domain coordinates 192-204,234-313
US-12-169-527-2468
```

Query Match 2.4%; Score 81.5; DB 3; Length 322;
Best Local Similarity 21.7%; Pred. No. 1.6;
Matches 44; Conservative 32; Mismatches 94; Indels 33; Gaps 8;

```
Qy      15 GNTNGFPATASNDLKAFTEGAVLSFHNICYRVKL-----KSGFLPCRKPVE-KEI   63  
       |:| | ||: |: : :| |:| :|| :||  
Db      43 GDTIGL--TATGDVFVACHECGFPLCHSCYEYELKHMSQSCPQCKTAFTSHQEGAEVEEI 100  
  
Qy      64 LSNINGIMKPGNLAILGPTGGGKSSLL----DVLAAARKDPISGLSGDVLINGAPRPANFK 118  
       : : : | | :| :| :| :| :| | | |  
Db     101 DMMTDAYLDNEIN--YGQGNSSKAGMLWEEDADLSSSSGHDSQIPNPHLANGQPMGSEFF 158  
  
Qy     119 CNSGYVVQDDVVMGTLTVRENLFQSAALRLATTMTNHEKNERINRVIQELGLDKV----- 173  
       | | | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|  
Db     159 C----ATSDAQSMQTTSIQGEKVHLSYADPKQPGPESDEEIRRV-PEIGGESAGTSAS 213  
  
Qy     174 ---ADSKVGTFQFIRGVSGGERKR 193  
       | | | ||: :| ||: |||  
Db     214 QPDAGSNAGTERVQGTGEGGKKR 236
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RESULT 15

```

US-11-982-010-1630
; Sequence 1636, Application US/11982010
; Publication No. US20090044297A1
; GENERAL INFORMATION
; APPLICANT: Adams, Thomas R
; APPLICANT:Andersen, Scott E.
; APPLICANT:Cao, Yongwei
; APPLICANT:Conner, Timothy W.
; APPLICANT:Dotson, Stanton B.
; APPLICANT:Edgerton, Michael D
; APPLICANT:Heck, Gregory R.
; APPLICANT:Kovalic, David K.
; APPLICANT:La Rosa, Thomas J.
; APPLICANT:Lee, Gary
; APPLICANT:Liu, Jingdong
; APPLICANT:Lutfiyya, Linda L.
; APPLICANT:Nelson, Donald E.
; APPLICANT:Wu, Jingrui
; APPLICANT:Xie, Zhidong
; TITLE OF INVENTION: Transgenic Plants with Enhanced Agronomic Traits
; FILE REFERENCE: 38-21(52016)A
; CURRENT APPLICATION NUMBER: US/11/982,010
; CURRENT FILING DATE: 2008-10-18
; PRIOR APPLICATION NUMBER: 10/678,588
; PRIOR FILING DATE: 2003-10-02

```

; PRIOR APPLICATION NUMBER: 60/415,758
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/425,157
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: 60/463,787
; PRIOR FILING DATE: 2003-04-18
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; PRIOR APPLICATION NUMBER: 60/337,358
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 10/438,246
; PRIOR FILING DATE: 2003-05-14
; PRIOR APPLICATION NUMBER: 10/155,881
; PRIOR FILING DATE: 2002-05-22
; PRIOR APPLICATION NUMBER: 09/816,660
; PRIOR FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: 09/733,089
; PRIOR FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: 09/565,306
; PRIOR FILING DATE: 2000-05-04
; PRIOR APPLICATION NUMBER: 60/132,860
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 10/424,599
; PRIOR FILING DATE: 2003-04-28
; PRIOR APPLICATION NUMBER: 09/985,678
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 09/304,517
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 09/874,708
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: 60/211,750
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 09/684,016
; PRIOR FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: 10/425,114
; PRIOR FILING DATE: 2003-04-28
; PRIOR APPLICATION NUMBER: 10/219,999
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: 60/312,544
; PRIOR FILING DATE: 2001-08-15
; PRIOR APPLICATION NUMBER: 60/324,109
; PRIOR FILING DATE: 2001-09-21
; PRIOR APPLICATION NUMBER: 11/491,125
; PRIOR FILING DATE: 2006-08-24
; PRIOR APPLICATION NUMBER: 60/144,351
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/163,469
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: 60/177,203
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: 60/184,162
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 09/620,392
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 1962
; SEQ ID NO 1636
; LENGTH: 325

; TYPE: PRT
 ; ORGANISM: Zea mays
 US-11-982-010-1636

Query Match 2.4%; Score 81.5; DB 2; Length 325;
 Best Local Similarity 24.3%; Pred. No. 1.6;
 Matches 41; Conservative 23; Mismatches 56; Indels 49; Gaps 9;

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Qy      119 CNSGYVVDVVMGTLTV-----RENLQFSAALRLATTMTNHEKNERINRVIQEL 168
      |||::: : : || | | | : | : :: | : ::
Db      28 CNDGFIQEISEMGILNTYGLIEPDFEERRARRFGMMDDAMSSLMRQR-----MEEM 78

Qy      169 GLDKVADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSSTANAVLLLL 228
      | | : | | | | | | | | : :: | | : | | | | |
Db      79 GRDGLFD-----IRGRQG---TGTEYGRRPTAVPTLVFGGIPSPGVDSGDVNVVL--- 125

Qy      229 KRMSKQGRTIIFSIIHQPRY-----SIFKLFDLSLTLLASGRLMFHGPA 270
      : | | : | | : | : | | : | | : | |
Db      126 ----RGRRRV--GAAQPNFSSLVVGPSLEALFEQL-LLQNNR---QGPA 164
  
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Search completed: March 3, 2009, 04:35:44
 Job time : 3 secs

SCORE 1.6